

Conversion Rate vs. Methylmercury Concentration

In addition to the cellular model, we attempted to model conversion rate versus methylmercury concentration. Philippidis et al. have studied that as extracellular ionic mercury concentration, the ionic mercury reduction rate increase in a Michaelis Menten fashion (Philippidis et al., 1990). We suspect that the addition of methylmercury has a similar effect on the conversion rate. Thus, we have fitted our experimental data a Michaelis Menten equation similar to Philippidis et al.

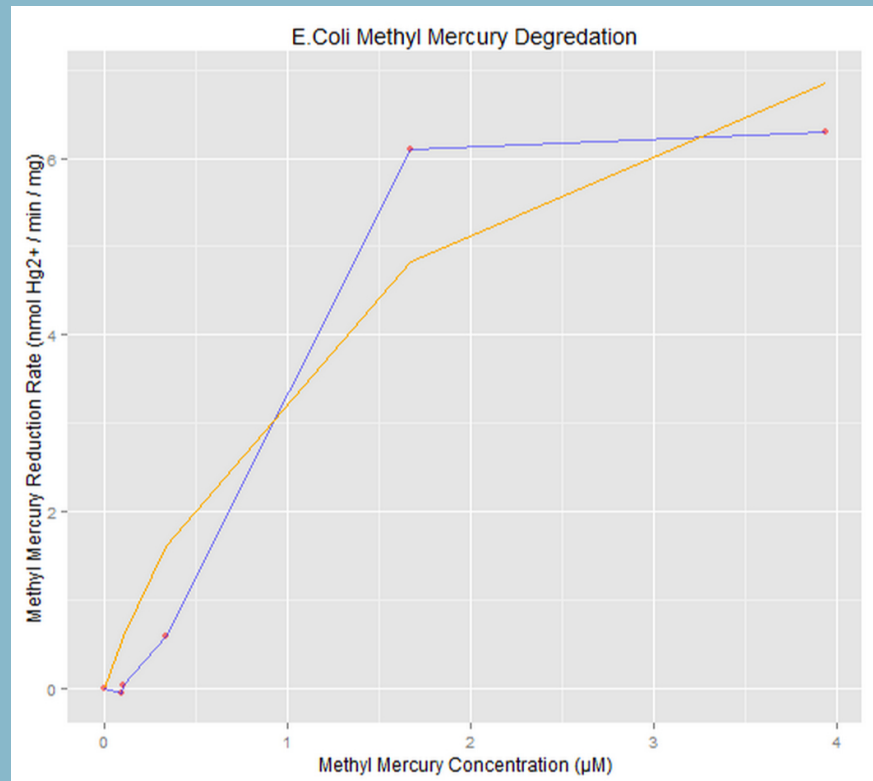


Figure 5. Red dots are the data points representing experimental values. Orange line is the fitted non-linear regression formula based on this set of data.